

Patent Abstracts of Japan

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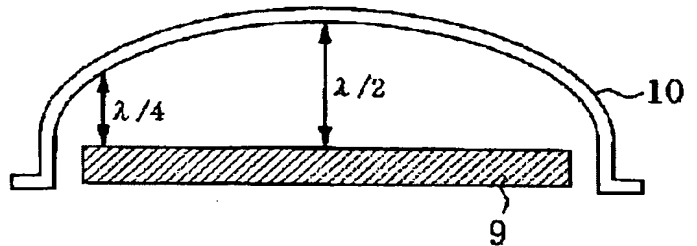
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TITLE : MICROSTRIP ARRAY ANTENNA WITH RADOME



ABSTRACT : PROBLEM TO BE SOLVED: To obtain a microstrip array antenna with radome that can efficiently emit power of an array center with high power density and where a change in an element impedance is eliminated at array circumferential parts with much contribution to beam shaping such as a low side lobe so as to obtain a desired radiation characteristic.

SOLUTION: The interval between the antenna and the radome is selected about a half of a center frequency of the antenna in the middle of the array, about 1/4 of the center frequency at the array circumferential parts. The radome has curvatures consisting of curves smoothly joining the intermediate parts between the middle and the circumferential parts of the radome.

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